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(54) Title: METHOD OF MAKING HIGH TEMPERATURE RESISTANT MODELS OR TOOLS

TOOL PRODUCTION PROCESSES

Traditional Process: Lengthy, requiring master

Boeing Process: Assembly using different adhesive and hand applied paddies

Present Invention: Streamlined process Using a machine dispensed curable paste
which is both adhesive and a machineable coating

Traditional process



Mold made from boards
or SMP in normal
manner

Laminate applied with
backing structure

Laminated tool
produced

Boeing process



Honeycomb stacked
together and cured

Paddies applied by hand
and cured

Paddies cut to give final
tool

New patent



Honeycomb stacked and
stuck together with SMP

Part cured and then cut
to give final tool

(57) Abstract: A method of making High Temperature
Resistant Models and Tools is provided. An assembly of
substrates can be formed with intermediate adhesive layer
of curable paste and same curable paste can be used as
topcoat or sealer. The curable paste can be machine dis-
pensed from a mixer mixing 2 components composition.
The composition can contain a resin, a filler, a chemical
thixotropy agent, a latent hardener and another hardener.
The method provides easy and cost-effective manufacture
of models or tools.

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